

What is claimed is:

1. A recording apparatus, comprising:

determining means for determining a sequence to record input data in empty areas among recording areas of a recording medium for substantially uniformizing recording counts in respective recording areas; and

recording means for recording said input data in said empty areas according to the sequence determined by said determining means.

2. An apparatus according to claim 1, further comprising:

registering means for registering said empty areas present on said recording medium in a first queue before said input data is recorded in said empty areas by said recording means, and, when said input data is recorded in said empty areas registered in said first queue, deleting the empty areas in which said input data has been recorded from said first queue, and registering empty areas from which data has been deleted in a second queue; and

moving means for moving said empty areas registered in said second queue to said first queue when said first queue becomes empty;

and wherein said recording means records said input data in said empty areas registered in said first queue according to the sequence determined by said determining means.

3. An apparatus according to claim 2, wherein said determining means determines a sequence to record input data in said empty areas registered in said first queue for uniformizing recording counts in the respective recording areas, and said moving means moves said empty areas registered in said second queue to said first queue while keeping the sequence of the empty areas when said first queue becomes empty.

4. An apparatus according to claim 2, wherein said recording means records said first queue and said second queue on said recording medium.

5. An apparatus according to claim 4, further comprising:

reading means for reading said first queue and said second queue which are recorded on said recording medium;

and wherein said recording means records said input data in said empty areas registered in said first queue read by said reading means, according to the sequence determined by said determining means; and

said registering means registers said empty areas from which data has been deleted in said second queue read by said reading means.

6. An apparatus according to claim 1, wherein said sequence comprises either a sequence of addresses of said empty areas or a sequence of sizes of said empty areas.

7. An apparatus according to claim 1, wherein said sequence comprises either a sequence of addresses of said empty areas, said registering means registers said empty areas from which data has been deleted in said first queue or said second queue, based on a positional relationship between said empty areas from which data has been deleted and areas in which said input data is recorded by said recording means immediately before the data is deleted.

8. An apparatus according to claim 2, wherein said recording means records positional information representing the positions of areas in which said input data is recorded, on said recording medium.

9. An apparatus according to claim 8, further comprising:

reading means for reading said positional information recorded on said recording medium;

and wherein said registering means registers said empty areas present on said recording medium in said first queue or said second queue based on a relationship between the positions of said empty areas and the positions represented by the positional information read by said reading means.

10. A recording method, comprising the steps of:
determining a sequence to record input data in empty areas among recording areas of a recording medium for substantially uniformizing recording counts in respective recording areas; and

recording said input data in said empty areas according to the sequence determined by said determining step.

11. A method according to claim 10, further comprising the steps of:

executing a process including the steps of registering said empty areas present on said recording medium in a first queue before said input data is recorded in said empty areas by said recording step, and, when said input data is recorded in said empty areas registered in said first queue, deleting the empty areas in which said input data has been recorded from said first queue, and

registering empty areas from which data has been deleted in a second queue; and

moving said empty areas registered in said second queue to said first queue when said first queue becomes empty;

and wherein said input data is recorded in said empty areas registered in said first queue according to the sequence determined by said determining step.

12. A method according to claim 11, wherein said determining step determines a sequence to record input data in said empty areas registered in said first queue for uniformizing recording counts in the respective recording areas, and said moving step moves said empty areas registered in said second queue to said first queue while keeping the sequence of the empty areas when said first queue becomes empty.

13. A method according to claim 11, wherein said recording step records said first queue and said second queue on said recording medium.

14. A method according to claim 13, further comprising the step of:

reading said first queue and said second queue which are recorded on said recording medium;

and wherein said recording step records said input data in said empty areas registered in said first queue read by said reading step, according to the sequence determined by said determining step; and

said registering step registers said empty areas from which data has been deleted in said second queue read by said reading step.

15. A method according to claim 10, wherein said sequence comprises either a sequence of addresses of said empty areas or a sequence of sizes of said empty areas.

16. A method according to claim 10, wherein said sequence comprises either a sequence of addresses of said empty areas, said registering step registers said empty areas from which data has been deleted in said first queue or said second queue, based on a positional relationship between said empty areas from which data has been deleted and areas in which said input data is recorded by said recording step immediately before the data is deleted.

17. A method according to claim 11, wherein said recording step records positional information representing the positions of areas in which said input data is recorded, on said recording medium.

18. A method according to claim 17, further comprising the step of:

reading said positional information recorded on said recording medium;

and wherein said registering step registers said empty areas present on said recording medium in said first queue or said second queue based on a relationship between the positions of said empty areas and the positions represented by the positional information read by said reading step.

19. A program for enabling a computer to carry out a recording method, said method comprising the steps of:

controlling determination of a sequence to record input data in empty areas among recording areas of a recording medium for substantially uniformizing recording counts in respective recording areas; and

controlling recording of said input data in said empty areas according to the sequence determined by said determination controlling step.

20. A program according to claim 19, wherein said method further comprises the steps of:

executing a process including the steps of controlling registration of said empty areas present on said

recording medium in a first queue before said input data is recorded by the recording controlling step, and controlling the deletion said empty areas in which said input data has been recorded from said first queue, and the registration of empty areas from which data has been deleted in a second queue when said input data is recorded in said empty areas registered in said first queue; and

controlling movement of said empty areas registered in said second queue to said first queue when said first queue becomes empty;

and wherein said input data is recorded in said empty areas registered in said first queue according to the sequence determined by said determination controlling step.